

FIG. 1

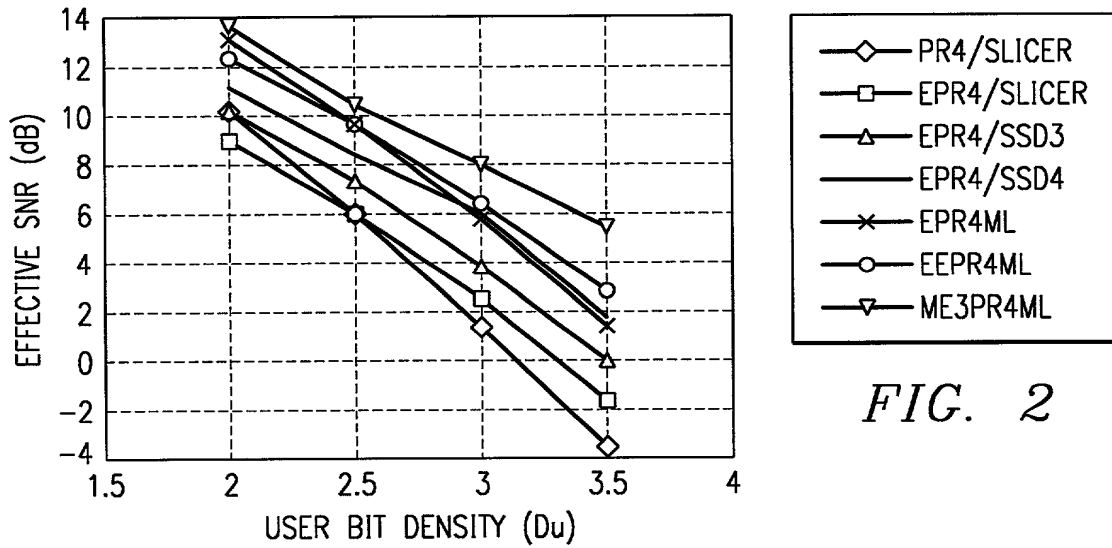


FIG. 2

	SSD3	SSD4
n	3	4
m	8	27
l	39	167

FIG. 3

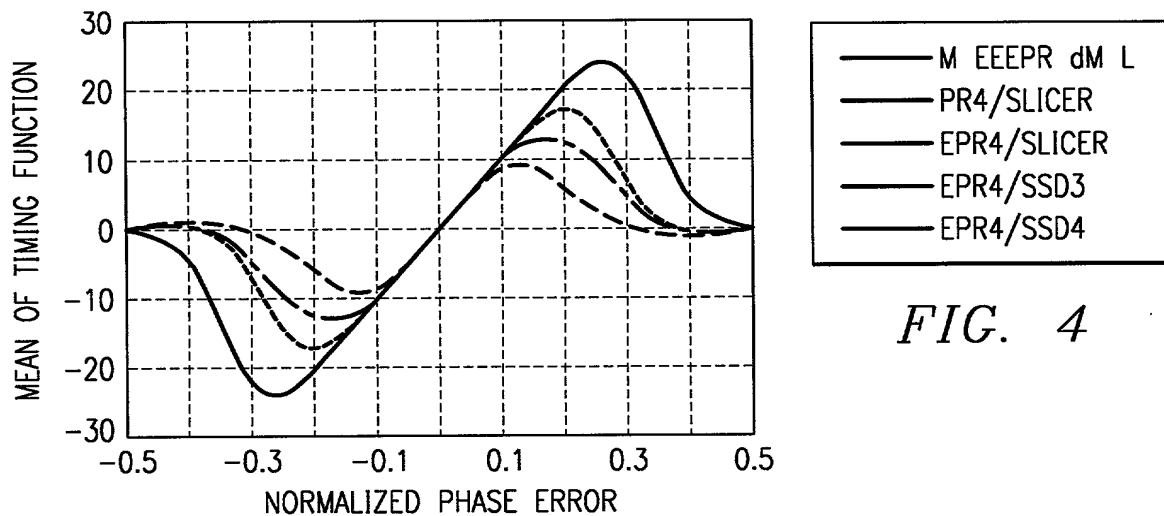


FIG. 4

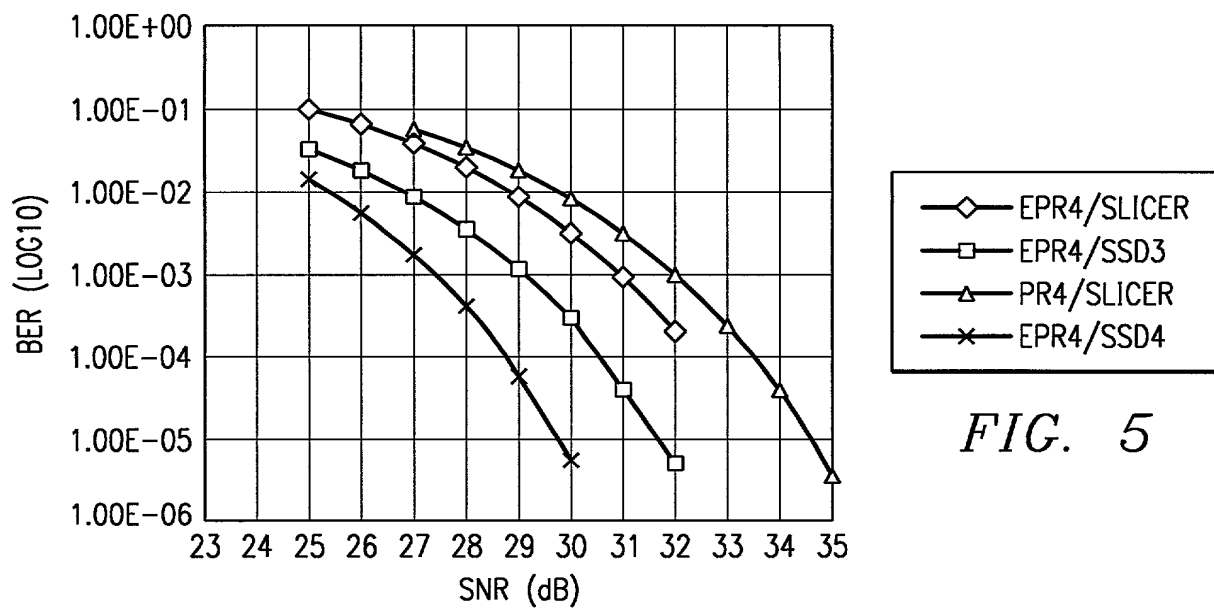


FIG. 5

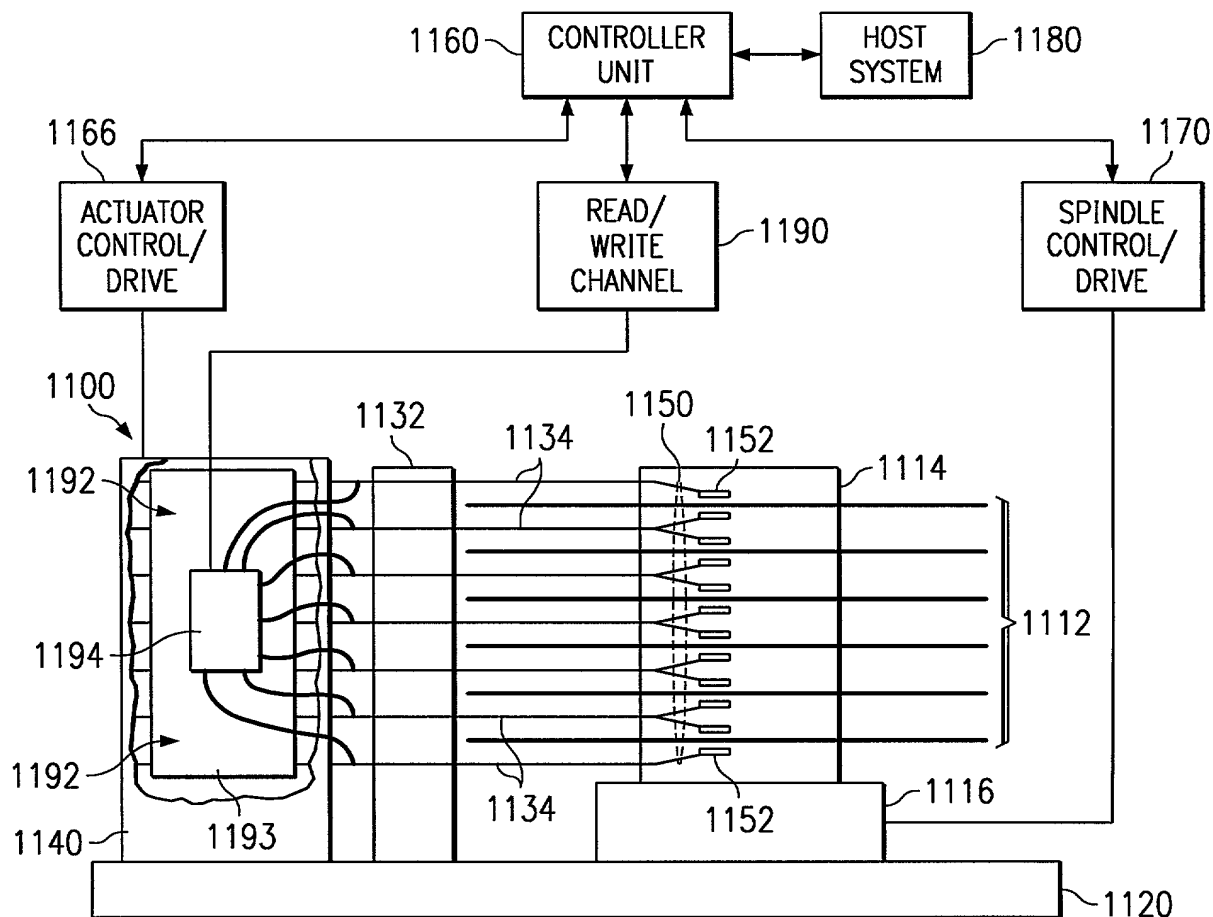


FIG. 6

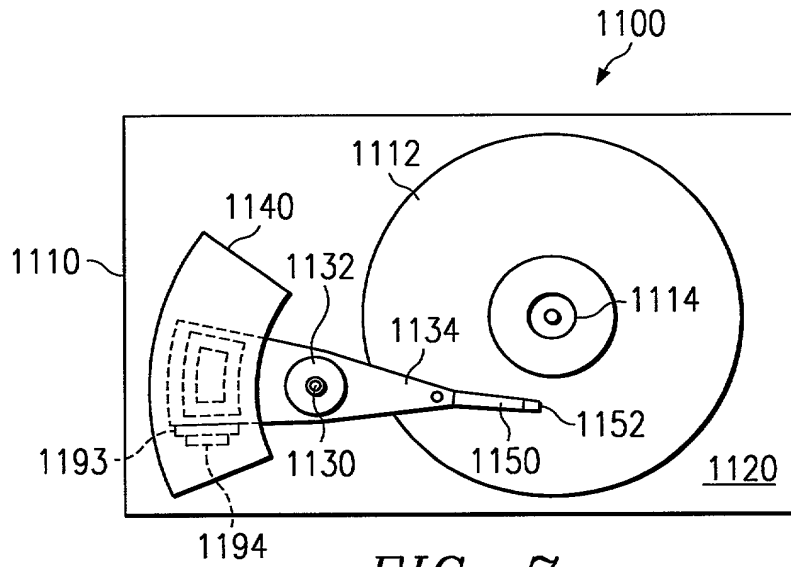


FIG. 7

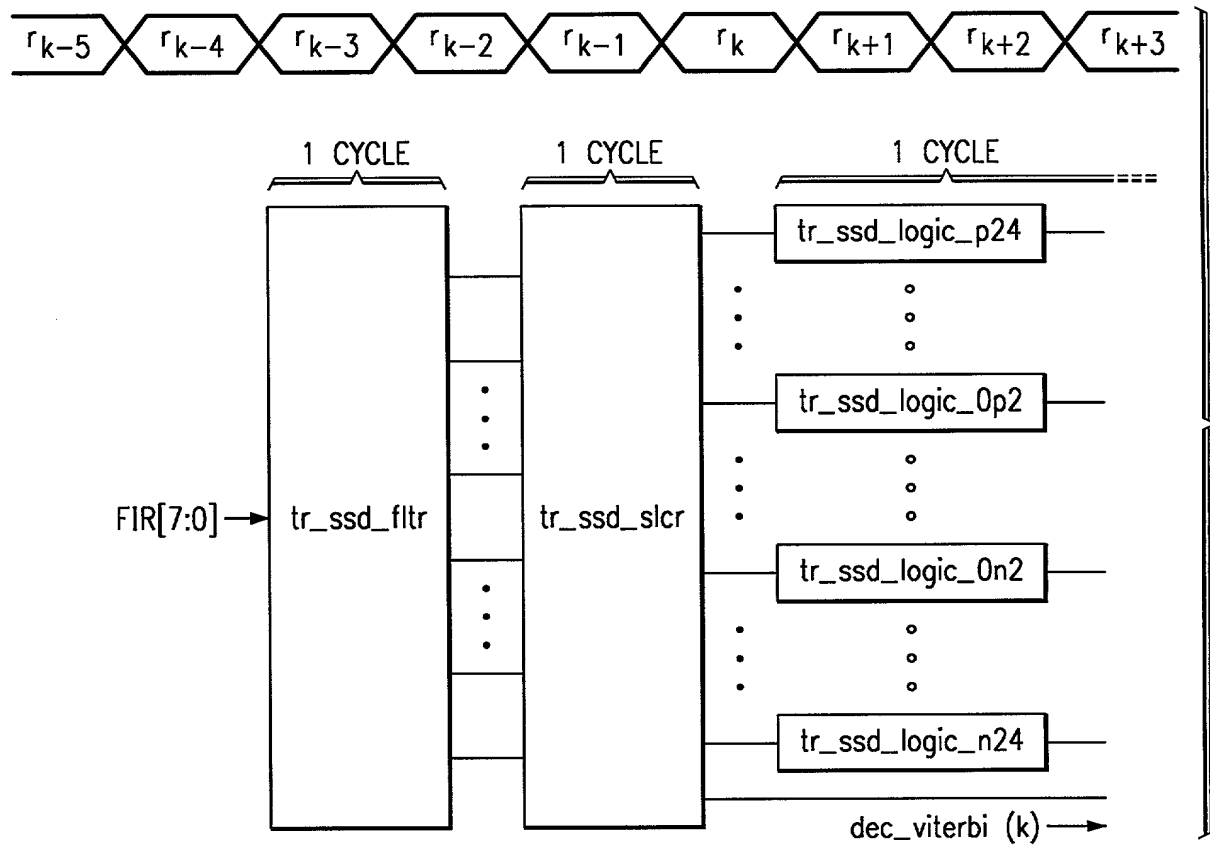


FIG. 8

FIG. 9

	$r(k-4)$	$r(k-3)$	$r(k-2)$	$r(k-1)$	$r(k)$	$r(k+1)$	$r(k+2)$	$r(k+3)$	$r(k+4)$	REDUCED FORM: 28 ADDERS
f1=					+1	+1				$A(k-3)$
f2=				+1	+1					$A(k-4)$
f3=				-1	+1	-1			\bigcirc	$-B(k-3)+r(k)$
g1=					+1		+1			$B(k-2)$
g2=					+1		-2		\bigcirc	$r(k)-2r(k+2)$
g3=					+1			-1	\bigcirc	$C(k)$
g4=						-1	-1			$-A(k-2)$
g5=					+2	+1	+1	\bigcirc	\bigcirc	$A(k-2)+2(r(k+3)+r(k+1))$
g6=				+1	+1	+1		\bigcirc	\bigcirc	$B(k)+A(k-4)$
g7=				+1	+4		-1	\bigcirc	\bigcirc	$(C(k)+4r(k+1))+4r(k+4)$
g8=			+1		+1					$B(k-3)$
g9=			+1		+1	-1		-1	\bigcirc	$-B(k)+B(k-3)$
g10=			+1	+1	\bigcirc		\bigcirc	\bigcirc	\bigcirc	$-r(k+4)-r(k+3)+2(r(k+3)+r(k-2))+A(k-5)$
g11=			+2	\bigcirc	\bigcirc		+2	\bigcirc	\bigcirc	$2A(k-1)+2r(k-2)+r(k-1)+4r(k)$
g12=			-1	-1						$-A(k-5)$
g13=			-2		+1				\bigcirc	$r(k)-2r(k-2)$
g14=			-2	-1	+1	-1	+1	\bigcirc	\bigcirc	$B(k-1)-B(k-2)+2(r(k+3)+r(k-2))$
g15=			-2	-2		\bigcirc	-1	\bigcirc	\bigcirc	$-(2r(k+3)+r(k+2))-4r(k+1)-2A(k-1)$
g16=		+1		+1	+1	+1			\bigcirc	$A(k-3)+B(k-3)$
g17=		+2	+1	+1	+2					$g5(k-3)$
g18=		+2	+2		+4	+1	+2			$-g15(k-1)$
g19=		+2	+1	-1	+1	-1	-2			$-g14(k-1)$
g20=		-1			+1					$-C(k-3)$
g21=		-1		-1	+1		+1			$-g9(k-1)$
g22=		-2	-1	-4		-2	-2			$-g11(k-1)$
g23=	-1	-1	-2		+2	+1	+1			$-g10(k-2)$
g24=	+4		-1		\bigcirc	+1			\bigcirc	$-C(k-2)+4(r(k)+r(k-4))$

$$A(k)=r(k+4)+r(k+3)$$

$$B(k)=r(k+4)+r(k+2)$$

$$C(k)=-r(k+3)+r(k)$$